

### ABSTRACT

One embodiment of a low-profile transducer includes a at least one fin  
perpendicularly mounted on a planar diaphragm, with a voice coil mounted onto the fin. The  
voice coil may reside in a strong uniform magnetic field. The locations at which the  
5 diaphragm is connected to a frame may be coplanar with a center of mass of the diaphragm.  
The three-dimensional structure of diaphragm and fins may be formed using origami  
techniques.